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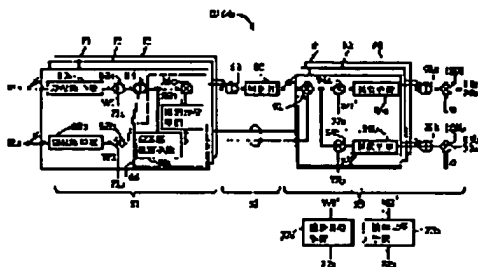
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(54) CDMA MULTI-USER RECEIVER SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain demodulated signals of pluralities of users without increasing a scale of the receiver system by combining a signal processing section that estimates an interference signal for each of signals received by pluralities of antennas with a signal processing section that eliminates the interference signal and demodulates pluralities of the user signals.

SOLUTION: Antenna weight coefficients W_1 , W_2 are respectively supplied from antenna weight decision means. In a detector 86, a transmission channel estimate means 86a applies carrier phase synchronization detection to an output from an adder 84 and gives its output signal to a multiplier 86c via a complex conjugate means 86b. The multiplier 86c applies amplitude weighing to an output of the complex conjugate means 86b and an output of the adder 84 for the provision of rake synthesis at a succeeding adder 88. The adder 88 applies weighting to an output of each multiplier 86c of three paths for the rake synthesis. A decision device 90 decides a most probable transmission symbol from an output of the adder 88.



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